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Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors and associated equipment

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THIS INDEX COMPLETES VOLUME A290

MASTER INDEX

VOLUMES A281–A290

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Laser Handbook, Volume 6

Free Electron Lasers

edited by **W.B. Colson, C. Pellegrini *and* A. Renieri**

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The Free Electron Laser triggers, for many people, wild fantasies on large scale applications. However, Free Electron Lasers are not so much direct devices for various applications, but form an interesting subject within fundamental physics.

The interplay between electric magnetic and the photon field have an intrinsic beauty and are deeply rooted in the fundamental understanding of nature. In this volume, edited by three major initiators in the field and containing contributions from experts belonging to the most advanced groups working on the subject, a first, comprehensive account of the Free Electron Laser is given. Chapters include both complete classical and quantum mechanical descriptions. Various types of experiments with intrinsic strong points and weaknesses are described while attention is also given to state-of-the-art experiments.

This book is not intended as a catalogue of on-going experiments. It is the first large scale reference source on which all further publications on Free Electron Lasers will be based. It will therefore be indispensable for theorists and experimentalists interested in the fundamental aspects of these types of lasers.

Contents: Preface. Introduction *(W.B. Colson, C. Pellegrini, A. Renieri and J.M. Madey).* Introduction to the physics of the free electron laser *(J.B. Murphy and C. Pellegrini).* Some different concepts in free electron lasers *(R.H. Pantell and L.K. Grover).* Undulators, electron trajectories and spontaneous emission *(P. Elleaume).* Classical free electron laser theory *(W.B. Colson).* Coherent harmonics generation *(F. de Martini).* The quantum mechanical analysis of the free electron laser *(G. Dattoli and A. Renieri).* Collective effects in the free electron laser *(P. Sprangle, C.M. Tang and C.W. Roberson).* Low power free electron laser *(M. Poole).* Single-pass free electron laser amplifiers *(E.T. Scharlemann).* The storage ring laser *(D.A.G. Deacon and J.M. Ortega).* Raman free electron laser experiments *(T.C. Marshall).* Accelerators and storage rings for free electron lasers *(A. van Steenbergen).* Extreme ultraviolet and soft X-ray optics for free electron lasers *(J.B. Kortright).* The waveguide free electron laser *(J.E. Walsh).* Author index. Subject index.

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Thermochemical Data for Reactor Materials and Fission Products

edited by **E.H.P. Cordfunke** *and* **R.J.M. Konings,**
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